



PTO/SB/21 (08-03)

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/712,897
	Filing Date	November 12, 2003
	First Named Inventor	Regentin
	Art Unit	1632
	Examiner Name	as yet unknown
Total Number of Pages in This Submission	Attorney Docket Number	010077.02

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): References Postcard
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

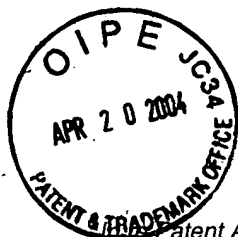
Firm or Individual name	Yuan Chao, Reg. 32,118		
Signature	<i>Yuan Chao</i>		
Date	Apr. 8, 2004		

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Nancy Impey		
Signature	<i>Nancy Impey</i>	Date	April 8, 2003

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop: _____ Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Appl'n of: Regentin et al.

Att'y Ref. No.: 010077.02 US

Appl'n No.: 10/712,897

Filed: Nov. 12, 2003

Group Art Unit: 1632

Examiner: (as yet unknown)

Title: Method for Production of
Polyketides

Mailing Address: Kosan Biosciences, Inc.
3832 Bay Center Place
Hayward, CA 94545

Information Disclosure Statement

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement ("IDS") is submitted to the Patent Office in accordance with the duty of candor and good faith under 37 CFR §1.56. The Examiner is requested to consider the cited information in the examination of this application.

The cited information is listed in the accompanying Form PTO-1449 (2 sheets total), submitted in duplicate. Each item of information is identified there by a unique cite number (A1, A2, ... B1, B2, ... C1, C2, etc.) The Examiner is requested to return an initialed and signed copy of the form, in accordance with MPEP §609.

Some of the items of information were cited or discussed in the application, in the paragraphs indicated in the following table:

CERTIFICATE OF MAILING UNDER 37 CFR §1.8	
I hereby certify that this correspondence is being deposited with the United States Postal Service on the date given below with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
Name of person signing certificate:	<u>Nancy Impey</u>
Signature: <u>Nancy Impey</u>	Date: <u>April 8, 2004</u>

Item of Information (Cite No.)	Application Location (paragraph no.)
A1	[0003], [0018]
A3	[0018]
A5	[0003], [0018]
A8	[0018]
B1	[0025]
B4	[0003], [0025]
C1	[0003]
C2	[0003]
C3	[0024]
C4	[0027]
C5	[0027]
C6	[0028]
C7	[0029]
C8	[0030]
C9	[0028]
C10	[0024]

This application was filed after June 30, 2003. In accordance with the PTO announcement in 1276 OG 255 (Aug. 5, 2003), copies of US patents and published applications are not being furnished with this application.

Item C11 is a paper disclosing this invention along with other information, published after the filing of this application.

The citation of a particular item of information is not intended to be, and should not be construed as, an admission that such item of information is material to

patentability as defined in 37 CFR §1.56 or qualifies as "prior art" within the meaning of applicable law. The materiality and "prior art" status of any item of information is a matter to be resolved during examination.

This IDS is submitted under the provisions of 37 CFR §1.97(b)(3), that is, before the mailing of a first Office Action on the merits. Therefore, no fee, certification or other formality is required. However, in the event a fee is required, the Commissioner is authorized to charge such fee (including but not limited to any fee(s) that might be required under 37 C.F.R. §§1.16, 1.17, or 1.18) against Deposit Account No. 50-2544.

Consideration of the cited information in the examination of this application is respectfully requested.

Respectfully submitted,

Apr. 8, 2004
Date

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Sheet 1 of 2

Form PTO-1449

**INFORMATION DISCLOSURE STATEMENT
IN AN APPLICATION***(Use several sheets if necessary)*Docket No. (optional)
010077.02 USApplication Number:
10/712,897Applicant:
Regentin et al.Filing Date:
Nov. 12, 2003Group Art Unit:
1632**U.S. PATENT DOCUMENTS**

Examiner Initial	Cite No. ¹	Document Number	Date	Name	Class	Sub-class	Filing Date If Appropriate
	A1	US 5,712,146	01/1998	Khosla et. al.	435	252.35	
	A2	US 5,830,750	11/1998	Khosla et. al.	435	252.35	
	A3	US 5,962,290	10/1999	Khosla et al.	435	183	
	A4	US 6,033,883	03/2000	Barr et al.	435	148	
	A5	US 6,080,555	06/2000	Khosla et al.	435	41	
	A6	US 6,177,262	01/2001	Ziermann et al.	435	76	
	A7	US 6,261,816 B1	07/2001	Khosla et al.	435	183	
	A8	US 6,451,768 B1	09/2002	Chu	514	29	
	A9	US 6,509,455 B1	01/2003	Ashley et al.	536	23.2	
	A10	US 6,551,802 B1	04/2003	Khosla et al.	435	76	
	A11	US 6,558,942 B1	05/2003	Khosla et al.	435	252.35	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Cite No. ¹	Document Number	Date	Country	Class	Sub-class	Translation Enclosed?
	B1	WO 00/44717 A2	08/2000	PCT			
	B2	WO 01/31035 A2	05/2001	PCT			
	B3	WO 01/31049 A2	05/2001	PCT			
	B4	WO 02/12534 A2	02/2002	PCT			

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, etc.)*

Examiner Initial	Cite No. ¹	Details of Document	Translation enclosed?
	C1	Cortes et al., "Repositioning of a Domain in a Modular Polyketide Synthase to Promote Specific Chain Cleavage," Science 268, 1487-1489 (1995)	
	C2	Raganathan et al., "Knowledge-based design of bimodular and trimodular polyketide synthases based on domain and module swaps: a route to simple statin analogues," Chem. Biol 6, 731-741 (1999)	

Examiner

Date considered

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

¹ Applicant's unique citation designation number (optional).

Form PTO-1449 INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION <i>(Use several sheets if necessary)</i>	<i>Docket No. (optional)</i> 010077.02 US	<i>Application Number:</i> 10/712,897
	<i>Applicant:</i> Regentin et al.	
	<i>Filing Date:</i> Nov. 12, 2003	<i>Group Art Unit:</i> 1632

U.S. PATENT DOCUMENTS

Examiner Initial	Cite No. ¹	Document Number	Date	Name	Class	Sub-class	Filing Date If Appropriate
	A14	US 6,562,602 B2	05/2003	Licari et al.	435	123	
	A15	US 2002/0119937 A1	08/2002	Khosla et al.	514	28	
	A16	US 2002/0137152 A1	09/2002	Santi et al.	435	118	
	A17	US 2004/0014183 A1	01/2004	Licari et al.	435	118	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Cite No. ¹	Document Number	Date	Country	Class	Sub-class	Translation Enclosed?

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, etc.)*

Examiner Initial	Cite No. ¹	Details of Document	Translation enclosed?
	C3	Leaf et al., "Employing racemic precursors in directed biosynthesis of 6-dEB analogs," J. Chem. Technol. Biotechnol. 77, 1122-1126 (2002)	
	C4	Kao et al., "Evidence for Two Catalytically Independent Clusters of Active Sites in a Functional Modular Polyketide Synthase," Biochemistry, 35, 12363-12368 (1996)	
	C5	Hu et al., "Enhanced heterologous polyketide production in <i>Streptomyces</i> by exploiting plasmid co-integration," J. Ind. Microbiol. Biotechnol., 30 (8), 516-522 (2003)	
	C6	Gokhale et al., "Dissecting and Exploiting intermodular Communication in Polyketide Synthases," Science, 284, 482-485 (1999)	
	C7	McDaniels et al., "Engineered Biosynthesis of Novel Polyketides," Science, 262, 1546-1550 (1993)	
	C8	Kieser et al., Practical Streptomyces Genetics, p. 153 (John Innes Foundation, Norwich, UK, 2000)	
	C9	Kao et al., "Manipulation of Macrolide Ring Size by Directed Mutagenesis of a Modular Polyketide Synthase," J. Am. Chem. Soc., 117, 9105-9106 (1995)	
	C10	Weissman et al., "Evaluating precursor-directed biosynthesis towards novel erythromycins through <i>in vitro</i> studies on a bimodular polyketide synthase," Chem. Biol. 5, 743-754 (1998)	
	C11	Regentin et al., "Precursor-directed biosynthesis of novel triketide lactones," Biotechnol Prog. 20 (1), 122-7 (Jan.-Feb. 2004)	

<i>Examiner</i>	<i>Date considered</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

¹ Applicant's unique citation designation number (optional).